									E	ote	entia	al Fi	und	ing	Sou	ırce	<u>s</u>												Wa	tersl	heds	,	
Project Type and Description	State Water Resources Control	CWA Section 319(h) Nonpoint	Proposition 13 (Water Quality)	Proposition 13 (Water Recycling)	CWA Section 205(j) Planning	Department of Water Resources	Proposition 13 (Flood Protection)	Proposition 13 (Urban Streams)	Proposition 13 (Groundwater Recharge)	Proposition 13 (Water Conservation)	Department of Parks and Recreation	Proposition 12 (Riparian/Riverine)	Habitat Conservation Fund	State Coastal Conservancy	Coastal Conservancy Programs	CA Wildlife Conservation Board	Proposition 12 (Riparian Habitat)	Natural Heritage Tax Credit Program	Department of Fish and Game	Fisheries Restoration Grants	NOAA	Community-based Rest. Grants	California Resources Agency	Coastal Resources Grant Program	Other potential sources		Russian/Bodega WMA	Klamath WMA	North Coast Rivers WMA	Humboldt Bay WMA	Eel River WMA	Trinity River WMA	Regionwide
Implement BMPs/Improve Water		X	X				X	X				X	X		X		X			X		X		X	X	1							
Quality Rehabilitate abandoned mines to improve water quality; address abandoned mine dam failures to prevent/control sediment releases; monitor water quality downstream from abandoned mines (especially for mercury); restore riparian habitat and function to river reaches affected by mine tailings		X	X				X	X				X			X							X		X	X			A				A	
Address abandoned mine dam failures to prevent/control sediment releases in Shasta River watershed		X	X					X							X							X		X	X			A					
Implement BMPs to prevent/reduce contaminated runoff from horse and cattle operations; implement pasture rotation for erosion and nutrient control; recycle agricultural waste including dairy waste to reduce pathogen and nutrient loading to surface and ground water; develop alternative stock watering systems including pond development; construct livestock fencing to protect riparian areas		X	X									X	X		X		X			X		X		X	X		A	A	A	A		A	A
Implement agricultural practices to reduce pesticides in surface waters		X	X					X							X							X		X	X								A
Recycle agricultural waste including		X	X					X							X							X		X	X		A					ш	

											T			-				_							
dairy waste to reduce pathogen and												- 1													
nutrient loading to surface and ground												- 1													
water	X	X			X	X				X		_			X	X	X								
Implementation of a program to reduce runoff discharges from	Λ	Λ			Λ	Λ				Λ					A	A	Α		A						
residential, commercial, and industrial												- 1													
properties and improve stream habitat												- 1													
in a mixed cultural/environmental												- 1													
justice setting (Rosaland Creek)												- 1													
Wetland "polishing marsh for storm	X	X			X	X				X					X	X	X		Α						
water runoff from Sebastopol												- 1													
Coordinate permitting efforts and/or	X	X				X	T			X					X	X	X								
streamline permit process for												- 1													A
restoration projects												- 1													
Implement techinical TMDLs in	X	X			X	X				X					X	X	X								
cooperative efforts with private and												- 1													A
federal landowners																									
Implement forest fuels reduction	X	X				X				X		- 1			X	X	X			A	Α			A	
management																									
Decommission, upgrade, storm proof,	X	X				X				X		- 1			X	X	X				A	A	A		
restore and maintain roads for erosion												- 1													
control to reduce sediment loading																									
Conduct parking lot storm water	X	X			X	X				X		- 1			X	X	X								A
management including porous												- 1													
pavement projects																									
Road erosion control under	X	X				X				X		- 1			X	X	X								A
powerlines, secure utility easement												- 1													
access																-	~~								
Use erosion control BMPs in	X	X								X		- 1			X	X	X								A
developing and maintaining hiking trails												- 1													
Convert septic systems to sewer	X	X			X	X				X		_			X	X	X		-						
systems, develop filtration system for	Λ	Λ			Λ	Λ				Λ		- 1			Λ	A	Λ		A						
sediment trapping and water re-use in												- 1													
Bodega Bay												- 1													
Implement management practices to	X	X			X	X				X		_	 		X	X	X								A
reduce off-site movement of NPS	Λ	А			Λ	Λ				Λ					Λ	Α.	Λ								A
pollution in urban areas												- 1													
Protect, restore, and enhance urban	X	X			X	X				X					X	X	X								A
streams including but not limited to															-										-
the use of greenbelts, day-lighting,																									
riparian restoration, buffer zones, and																									
wetlands creation for storage and																									
attenuation			İ		İ							- 1													

Habitat Restoration/Beneficial Use Enhancement	X	X		Y	X 2		X	X	X		X	X		X	X	X	X			A		A
Protect/restore/enhance historic flood plains	X	X		y	ζ Σ	(X	λ	X		X	X		X	X	X	X					A
Stream restoration, road restoration/retirement or other erosion/sedimentation reduction activities, especially where TMDLs are established	X	X		y	X 2	ζ.	X	X	X		X	X		X	X	X	X					A
Develop and implement BMPs for noxious weed control in water ways and/or control of invasive plant species	X	X			2	ζ.		X	X		X	X		X	X	X	X					A
Implement riparian revegetation and stream canopy enhancement using native plants	X	X			2	ζ.		X	X		X	X		X	X	X	X					A
Riparian revegetation, channel protection and animal exclusion zones as set forth in an approved technical TMDL	X	X			2	ζ.		X	X		X	X	X	X	X	X	X	A	A			
Install streambank stablization and restoration measures including bioengineering	X	X		X	X 2	ζ.	X	Χ	X		X	X	X	X	X	X	X					A
Large woody debris (LWD) recruitment and placement, and protection of LWD recruitment areas to create fish habitat	X	X			2	ζ.		X	X		X	X	X	X	X	X	X					A
Install fish screens on diversion outlets	X	X			2	ζ.		X	X		X	X	X	X	X	X						A
Remove fish migration barriers	X	X			2	ζ.		λ	X		X	X	X	X	 X	X	X					A
Identify, protect and enhance salmonid refugia in streams	X	X			2	ζ.		X	X		X	X	X	X	X	X	X					A
Laguna wetland corridor restoration and wetland bank and provide sediment(nutrient) removal from the tributaries to the Laguna de Santa Rosa	X	X		X	Χ Σ	(X	X	X		X	X	X	X	X	X	X	A				
Re-create wetlands in flood prone areas and freshwater portions of upper tidal and low gradient channels of coastal streams	X	X		X	X 2	(X	X	X		X	X	X	X	X	X	X					A

D	- X7	***		1	1	- X7	1 37	- X7			**	**	*7	*7	*7	Г	X7	***	*7								_
Protect, restore, and enhance wetlands, riparian areas, estuaries and	X	X				X	X	X		X	X	X	X	X	X		X	X	X								A
adjacent lands. Restore fluvial																											
processes in wetland areas																											
processes in wettand areas	l						l .															ı					
Assess loadings and impacts			X	X		X			X			X						X	X	1 1			Ī				
Evaluate wildlife health in estuaries				X	-	X			X			X						X	X	i							A
due to cumulative effects from the																											
watershed																											
Evaluate hydrological connections			X	X		X			X			X						X	X								A
between estuaries, wetlands and																											
streams																											
Temperature modeling to predict				X					X			X						X	X				A				
impacts of different riparian land use																											
for Garcia River																											
Inventory of surface and ground water			X	X		X			X			X						X	X						T	T	A
withdrawals for agricultural and																											
upland areas					_											_		_									
Assessments and inventories of roads			X	X		X			X			X						X	X								A
as sediment sources to streams in																											
watersheds where sediment TMDLs																											
are established or are pending in the																											
next five years																											
Assess watershed cumulative effects			X	X		X			X			X						X	X								A
of THPs			**			L.,						<u> </u>							~~								_
Evaluate and monitor urban storm water runoff, research control			X	X		X			X			X						X	X		A						
,																											
measure for future implementation plan to reduce storm water pollutants																											
in Foss Creek																											
Develop GIS map layers of sediment				X		X						X						X	X	ı				Α			-
sources in Freshwater Creek and Elk						1 2						1.						- 1	2.					**			
River																											
Identify sources of HVOCs in Santa			X	X		X			X			X			X		X	X	X		Α						
Rosa Creek																											
Assessments and inventories of roads			X	X		X			X			X						X	X								A
(logging, rural and residential) as																											
sediment sources to streams, and																											
recommendations for implementation																											
of road improvement projects																											
Conduct water quality assessment for			X	X								X			X		X	X	X								A
salmonid restoration			-	Ų.								ļ.,			٠						.					_	_
Conduct water quality assessment for			X	X								X			X		X	X	X					A			
salmonid restoration in the Mad River																											
and tributaries	<u> </u>						<u> </u>													J							

																				_		_				 		_
Assess, inventory and prioritize			X	X	X			X				X					X		X	X	X			A				
tributaries with salmonid fish passage																												
deficiencies from Iron Gate dam to																												
the confluence with the Trinity River,																												
develop an ArcView watershed																												
planning tool for all tributaries																												
Assessment of natural and			X	X	X			X				X							X	X	X		1					
anthropogenic origins of aluminum																												
Conduct habitat typing and sediment			X	X	X			X				X					X		X	X	X		1			_		7
source inventories in Salmon Creek			1.					1.				2.					11		2 L	11	11		•					
Conduct temperature and nutrient			X	X	X			X				X								X	X			A		+		\dashv
baseline sampling and modeling to			Λ	А	Λ			А				Λ								Α.	Λ			A				
analyze limiting water quality																												
conditions and predict impacts of																												
different flow regimes					<u> </u>	**			-		-				-	-		_			**	-				$-\!\!\!\!+\!\!\!\!-$		-
Stream channel assessments			X	X	X	X		X				X					X		X	X	X						A	
<u> </u>		-	-	-						 				-									-			 		_
Research-oriented studies	X	X		X	X										_	_				X	X							
Evaluate the effects of water	X	X		X	X			X									X		X	X	X			A				
impoundments (e.g. Dwinnell																												
Reservoir) on the watershed and																												
wildlife habitat																												
Evaluate the impacts of ground water	X	X		X			X	X											X	X	X						A	
withdrawl on streams and the effects																												
of vegetation management on ground																												
water																												
Develop mitigation standards and/or	X	X		X															X	X	X					A		
BMPs for toxics such as mercury in																												
mine tailing and aggregate mining																												
Conduct a feasibility study for dam	X	X		X	X			X	-		-					-				X	X		\		Α	+		-
removal	21	21		21	21			21												2.	21	'	•		11			
Conduct a feasibility study for fish	X	X		X					-	_	-		_		_	-	X	_	X	X	X		\		Α	+		\dashv
passage improvement	Λ	Λ		Λ													Λ		Λ	Α.	A	'	•		A			
Develop an incentive program to	X	X		X					-		-				-	-	-	_		X	X	-	-			$+\!\!-$	_	\dashv
	Λ	Λ		Λ																Α.	Λ						A	
reduce the use of two-stroke engines																												
in reservoir and water ways															_							-	.		-	 		4
Temperature modeling to predict	X	X		X	X															X	X	. .	4					
impacts of different riparian land use																												
for Garcia River																												
Develop and use hydrodynamic water	X	X		X	X	X	X	X											X	X	X			A		A		
quality and flow models including					1																							
data collection for "ground truthing"																						L						
Study to determine the effects of	X	X		X	X		X	X												X	X						A	.]
over-drafting of ground water in					l																							
watershed areas associated with																												
1										 													_			 		_

vineyard development																								
Study/inventory and mapping of wetlands	X	X		X		X	X				X					X	7	X :	X					A
Water Conservation and Management			X	X	•	X	X		X							X		·	X					
Develop an emergency action response plan for droughts regarding salmonids and irrigation efficiencies improvement planning			X	X			X		X							X			X		A			
Promote the coordination of Klamath River and Trinity River dam releases to maximize beneficial uses			X			X			X					-					X		A		A	
Implement program to reduce the amount of water used by agriculture either through increased efficiencies or land acquisitions			X						X										X		A			
Improve irrigation tail water recovery to reduce nonpoint source pollution and water consumption			X						X										X		A			
Pipe or line irrigation diversion ditches to increase stream flows			X				X		X										X		A		A	
Alternative water diversion demonstrations to reduced the impact from irrigation and non-irrigation situations			X					X	X									-	X					A
Monitoring	X		I	X			X	X	I						X	X			X		I			\neg
GIS map layers of sources, monitoring wells, and groundwater pollution in McMinn Contamination Area	X			X			74	X											X	A				
Develop self-assessment monitoring program for vineyard managers to assess cold water fisheries impacts from vineyards	X			X											X	X			X					A
Develop and implement a monitoring program for turbidity and suspended sediment	X			X														·	X	A				
Develop QA/QC for citizens' monitoring of bacterialogical sampling/data management	X			X												X			X					A
Develop and implement a monitoring program for streambed and habitat parameters	X			X			X								X				X	A				

Monitor urban creeks for nutrients,	X		X		X										X	X			A		
CTR pollutants, and bacterial loading																					
characteristics																**					
"All party" monitoring for upslope	 X		X												X	X					A
risk assessment and mitigation																					
effectiveness monitoring for timber																					
harvesting														_							
Implement flow monitoring and	X		X	X	X		X									X					A
availability of flow gauges																					
Conduct bacteriological sampling in	X		X												X	X	A			A	A
summer recreation areas including																					
ocean beaches with emphasis on																					
QA/QC																					
Baseline monitoring for water quality	X		X												X	X					A
to include bacteria, oil, grease, fuels,																					
nutrients, sediment/turbudity, storm																					
water and waste water, and fish,																					
macroinvertebrate, and shellfish																					
populations in coastal estuaries and																					
streams																					
Water quality monitoring for TMDL	X		X												X	\mathbf{X}					A
implementation including																					
reference/control subwatershed																					
monitoring, and effects on salmonids																					
where the TMDL is for temperature																					
or sediment																					
Monitor the effectiveness of existing	X		X												X	X					A
regulatory programs (ACOE, DFG,																					
CDF, USFS, counties, etc.) to prevent																					
the loss of wetlands and riparian																					
habitat and degradation of water																					
quality																					
Monitor ground water quality for	X		X			X							\neg			X		1			Α
constituents not currently being			_			-															
monitored, such as pesticides,																					
including small, private wells																					
Effectiveness monitoring of	X		X													X					Α
implementation projects and activities																					-
to determine impacts on aquatic																					
species and other beneficial uses																					
Implement and utilize citizens'	X		X												X	X		t			A
monitoring or establish a volunteer																					
monitoring network to track																					
effectiveness of management																					
measures and establish baseline																					
conditions																					
VO.10110110											L							1			

															_						
Monitor turbidity, suspended solids,	X			X									X	X							A
sediment loading and pesticides																					
Sediment and stream channel	X			X									X	X							A
monitoring including Vstar																					
Promote self-monitoring for nutrients	X			X									X	X		A			A		
and sediment from dairies																					
Conduct trend monitoring for water	X			X									X	X			A			A	L
quality, temperature																					
macroinvertibrates, riparian habitat,																					
gravel quality etc.																					
		_	_		_	_						_									
Education and Outreach	X	X				X							X	X							
Salmonid habitat/aquatic species	 X	X												X							A
education for agencies, organizations,																					
landowners and private organizations																					
Bioengineering education for	X	X												X							A
agencies, organizations, landowners																					
and private organizations																					
Heavy equipment operation training	X	X												X							Α
for restoration and road work, and																					
technology transfer to organizations																					
and landowners																					
Landowner outreach and education	X	X												X							A
for road decommissioning/storm-																					
proofing/maintanence																					
Stakeholder education and outreach	X	X												X							A
on cumulative effects of water																					
withdrawals (diversions) from																					
tributaries;																					
Training for fire managers for water	 X	X											X	X							A
quality protection																					
Burn Area Emergency Rehabilitation	X	X												X							Α
technology transfer																					
Provide education and outreach to	X	X				X							X	X							A
urban citizens and stream side	l -	-				-															1
property owners on nonpoint source																					
pollution, especially from septic																					
systems and pesticide and fertilizer																					
use																					
"Shrimp Club" type	X	X											X	X		A					A
education/outreach/restoration																					
Technology transfer for vineyard	X	X												X				A			
installation, education and outreach;																					
changes to BMPs and innovative																					
technology for vineyards on slopes																					
>30% and adjacent to water courses	I	l	l			l				- 1										1	1

Form partnerships with public	X	X														X	X						A
agencies, organizations, and																							
stakeholders to plan, implement, and																							
monitor projects																							
Implement a nonpoint source public	X	X															X	Α					
outreach program addressing the																							
requirements of Phase II NPDES																							
storm water permits																							
														•									
Watershed Planning				X												X	X						
Watershed Management Plan for				X													X	Α					
Americano Creek																							
Watershed planning and assessment				X													X						Α
using an adaptive management																							1.2
approach that may include																							
compilation of existing data, GIS																							
development, assessment monitoring,																							
historic and current land use, habitat																							
typing, sediment source evaluation,																							
stream bank and upslope erosion																							
control, road inventories, ground																							
water analysis, hydrological budget,																							
urban runoff, economic analysis,																							
prioritization of recommended																							
implementation projects, and a																							
strategy to achieve implementation																							
Develop regional watershed group				X												X	\mathbf{X}						A
networks																							
Monitoring, TMDL development and				X													X			Α			Α
implementation planning																							
1 0				**							_					X/	w.r			+			_
Develop a restoration plan that				X												X	X			A			
incorporates the TMDL and the North																							
Coast Watershed Assessment in the																							
Big River																							
Collect and provide information to				X													X	A					
revise TMDL for EPA approval,																							
revise Enhancement Plan for Stemple																							
Creek																							
	-				1				•		-										•		
Land Acquisition		X				X	X	X	X	X	X		X				X						
Land acquisition for growing trees for		X	-	-		X	X	X	X	X	X		X				X	A		A		A	
riparian canopy and irrigation water		Λ				1	Λ	Λ	^	Λ	^		/ 1				21	A		A		A	·
use, habitat improvement,																							
preservation and restoration and for a			1 1				l	1	I	1	l .		i l					1	1	1 1			

buffer from adjacent land use																				
Acquisitions of conservation easements, fee title lands and trusts to prevent surface water quality degradation from timber harvest, urban development, and agricultural activities		X			X	X	X	X	X	X		X				X				A
Land acquisition/easements for road decommissioning in Big River and Jenner Creek		X			X	X	X	X	X	X		X				X	A	A		
Land acquisition/easements to protect and restore riparian areas		X			X	X	X	X	X	X		X				X				A

Funding Source Contacts

State Water Resources Control Board

CWA Section 319(h) (Nonpoint Source)

http://www.swrcb.ca.gov/nps/grants.html (916) 341-5254

Proposition 13 (Water Quality)

http://www.swrcb.ca.gov/nps/grants.html (916) 341-5254

Proposition 13 (Water Recycling)

http://www.swrcb.ca.gov/prop13/htm/recycling_bond.htm (916) 341-5693

CWA Section 205(j) (Planning)

http://www.swrcb.ca.gov/nps/grants.html (916) 341-5254

Department of Water Resources

Proposition 13 (Flood Protection)

http://wdwr.water.ca.gov/dir-Water_Bond_2000/Flood_Protection.html (916) 653-6192

Proposition 13 (Urban Streams)

www.dpla.water.ca.gov/environment/habitat/stream/usrp.html (916) 653-6192

Proposition 13 (Groundwater Recharge)

www.dpla.water.ca.gov/grants-loans (916) 653-6192

Proposition 13 (Water Conservation)

www.dpla.water.ca.gov/grants-loans (916) 653-6192

Department of Parks and Recreation

Proposition 12 (Riparian/Riverine)

http://cal-parks.ca.gov/grants/bond/07bond.htm (916) 651-8576

Habitat Conservation Fund

http://cal-parks.ca.gov/grants/hcf/hcf.htm (916) 653-7423

State Coastal Conservancy

Coastal Conservancy Program

http://www.coastalconservancy.ca.gov (510) 286-4182

CA Wildlife Conservation Board

Proposition 12 (Riparian Habitat)

http://gov/wcb/california riparian habitat conservation program.htm (916) 445-1072

Natural Heritage Tax Credit Program

http://www.dfg.ca.gov/wcb/nhpttocandtext.htm (916) 445-8448

Department of Fish and Game

Fisheries Restoration Grants

http://www.dfg.ca.gov/nafwrb/fishgrant.html (916) 327-8842

NOAA

Community Based Restoration Awards

http://www.nmfs.noaa.gov/habitat/restoration/community/index.html (301) 713-0174

California Resources Agency

Coastal Resources Grant Program

http://ceres.ca.gov/cra/coastal_grant/application.html (916) 653-5656

Other Potential Sources

Http://watershed.ecst.csuchico.edu/new spin/spinmain.asp